US Army Corps of Engineers®
Engineer Research and Development Center

# Controlled Image Base (CIB)

## Description and Background

Controlled Image Base (CIB) is a standard National Geospatial-Intelligence Agency (NGA) digital imagery product produced to support mission planning and Command, Control, Communications and Intelligence ($C^3I$) systems. Other CIB uses include support to weapons systems, C4I Theater Battle Management, regional overviews, and mapping where maps do not exist or are outdated.

## Key Capabilities/ Characteristics

CIB is panchromatic (greyscale) digital imagery.

Content: CIB is a seamless ortho-rectified image dataset from either stereo or mono National Technical Means (NTM) or other adequate commercial source imagery.

Resolution: Currently, CIB production is at 1-meter and 5-meter ground sample spacing, though legacy SPOT-based 10-meter CIB remains available.

Structure and Format: CIB is Raster Product Format (RPF) and National Imagery Transmission Format Standard compliant.

Datum: World Geodetic System 1984 (WGS 84).

Media: CIB is distributed via classified NGA networks and via CD/DVD.

Standard File Size: Standard image frame sizes are 1,536 x 1,536 pixels / 0.3 megabytes. This translates into real-world image sizes of 1,536 meters (CIB1), 7,680 meters (CIB5), and 15,360 meters (CIB10). The number of frames per 1 x 1 degree cell is contingent on resolution and latitude.

Horizontal Accuracy: Target accuracy is 23 meters (75 feet) at 90 percent circular error for all resolutions of CIB where terrain corrected with DTED Level 1. Non-standard CIB may have lower accuracy.

## Current Status

CIB continues to be an NGA product.

## Point of Contact

Randy Swanson, 703-428-6785

Internet e-mail address: randall.j.swanson@erdc.usace.army.mil

Intelink S e-mail address: rswanson@tec.army.smil.mil